

Title (en)

Improved tone rendition of halftone images by projection exposure.

Title (de)

Verbesserte Tonwiedergabe von Halbtonbildern durch Projektionsbelichtung.

Title (fr)

Réproduction du ton amélioré d'images demi-tons produites par exposition par projection.

Publication

EP 0625727 A1 19941123 (EN)

Application

EP 93201431 A 19930519

Priority

EP 93201431 A 19930519

Abstract (en)

A method for producing a reproduction in reduced or enlarged size of a halftone original with improved tone rendition by the use of a continuous tone correction mask in conjunction with the halftone original applied in projection exposure. It is a particular characteristic of the present invention that said improved tone rendition is obtained by using in said projection exposure a mask image, the maximum density (i.e. density at 3 % dot value areas of the halftone original used in the projection exposure) is linearly directly proportional to the screen ruling of the halftone original used in the projection exposure (see Fig. 2 and 3).

IPC 1-7

G03F 3/06; G03F 1/12; G03F 3/10; G03C 5/02

IPC 8 full level

G03C 5/00 (2006.01); **G03C 5/02** (2006.01); **G03C 5/08** (2006.01); **G03F 1/54** (2012.01); **G03F 3/06** (2006.01); **G03F 3/10** (2006.01); **G03F 5/00** (2006.01); **G03F 5/18** (2006.01)

CPC (source: EP US)

G03C 5/02 (2013.01 - EP US); **G03F 3/06** (2013.01 - EP US); **G03F 3/107** (2013.01 - EP US)

Citation (search report)

- [Y] US 2407211 A 19460903 - YULE JOHN A C
- [Y] DE 3727993 A1 19890302 - JAHN HELMUT [DE]
- [Y] FR 2562277 A1 19851004 - BURBAN JEAN PIERRE [FR]
- [Y] EP 0328787 A1 19890823 - AGFA GEVAERT NV [BE]
- [Y] US 2455849 A 19481207 - YULE JOHN A C
- [A] US 3337343 A 19670822 - HOVE HERMAN O

Cited by

CN118092069A

Designated contracting state (EPC)

BE DE FR GB NL

DOCDB simple family (publication)

EP 0625727 A1 19941123; JP H07311444 A 19951128; US 5462841 A 19951031

DOCDB simple family (application)

EP 93201431 A 19930519; JP 12432494 A 19940513; US 22837494 A 19940415